MATCHLINE – SEE DRAWING E10

AERATION TANKS NOS 11–16

SECONDARY CLARIFIERS NOS 11–16

MATCHLINE – SEE DRAWING E14

MATCHLINE – SEE DRAWING E13

SECONDARY CLARIFIER RAS PUMP STATION "C" (460)

EXISTING FIBER OPTIC PATCH BOX

EXISTING INTERCOM EQUIPMENT

EXISTING MCC–8 (SEE NOTE 1)

SEE NOTE 5

LC–22

DAF BLEND TANK (740)

TIE INTO 3" SPD FROM WAS METER VAULT. SEE M12

WAS METER VAULT B/C (880)

2" SPD

SEE DRAWING E13

POWER CENTER NO.4

RELOCATED SG–3 (SEE NOTES 1, 3, & 4)

NEW TRANSFORMER BY ELECTRIC UTILITY (SEE NOTE 2)

MH$_3$

MH$_4$

HH$_{14}$

Y1 1

TIE INTO Y1–1 @ CL 898.50 SEE G12

PROXIMITY SENSOR

TRUCK GATE OPERATOR

1617002

FURNISH AND INSTALL FENCE GROUNDING SYSTEM PER STANDARD DETAIL 1617002

POLE MOUNTED CCTV CAMERA

GATE ACCESS SYSTEM CONTROL PANEL

NOTES:

1 THE RELOCATED SWITCHGEAR SG–3 AND THE EXISTING MCC–8 BOTH CONTAIN BOTTOM FED MAIN CIRCUIT BREAKERS OR MAIN LUGS. THE CONTRACTOR SHALL FURNISH AND INSTALL NEW WIRE AND CONDUIT TO SUPPLY THESE ASSEMBLIES FROM BELOW. REFERENCE DRAWING E481.

2 THE CONTRACTOR SHALL FURNISH AND INSTALL DUCTBANK AND MANHOLES FOR THE ELECTRIC UTILITY 15KV PRIMARY CONDUCTORS. THE CONTRACTOR SHALL ALSO FURNISH AND INSTALL CONCRETE TRANSFORMER PADS AS REQUIRED BY THE ELECTRIC UTILITY. ALL DUCTBANKS, MANHOLES, AND TRANSFORMER PADS FOR ELECTRIC UTILITY SHALL BE INSTALLED PER THE ELECTRIC UTILITY SPECIFICATIONS.

3 THE CONTRACTOR SHALL FURNISH AND INSTALL 16–4" SPARE CONDUITS FROM THE MANHOLE MH–4 TO SG–3 SECTIONS NO.3, NO.4, NO.5, AND NO.6. EACH OF THESE SG–3 SECTIONS SHALL HAVE 4–4" SPARE CONDUIT STUB UPS FROM MANHOLE MH–4. REFERENCE DRAWING E481 FOR SWITCHGEAR SG–3 ELEVATION.

4 CONTRACTOR SHALL REFERENCE SPECIFICATION 01520 FOR ADDITIONAL SG–3 INSTALLATION REQUIREMENTS AND CONSTRAINTS AND TEMPORARY POWER REQUIREMENTS. THE CONTRACTOR SHALL FURNISH AND INSTALL DUCTBANKS "A" AND "B" TO SUPPLY MCC–8, MCC–14, AND MCC–18 DURING THE PERIOD SG–3 IS NOT AVAILABLE (REFERENCE SPECIFICATION 01520). THE CONTRACTOR SHALL SUPPLY MCC–8, MCC–14 AND MCC–18 FROM SG–3 ONCE SG–3 IS COMPLETELY INSTALLED AND OPERATIONAL AS INDICATED ON DRAWING E481.

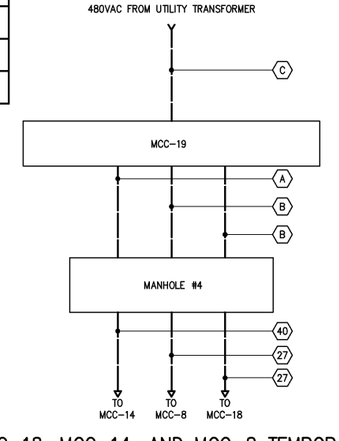
DUCTBANK CONDUIT AND WIRE

NO.	DESCRIPTION
25	2(5#12, 4#14, #12G, 1"C) 2(6#14, #14G, 1"C) 2–1"SP.C.
26	3(3#350kcmil, 3/0G, 3"C) 1–3"SP.C.
27	3(3#350kcmil, #3/0G, 3"C) 1–3"SP.C.
28	3(6#14, #14G, 1"C) 4(2–TPS, #14G, 1"C) 1(2#12, #12G, 1"C) 2(3#12, #12G, 1"C) 2–1"SP.C.
29	2#6, #10G, 1"C 1–1"SP.C.
30	4(3#2, #8G, 2"C) 4(2#12, 4#14, #12G, 1"C) 4(6#14, #14G, 1"C) 1(2#12, #12G, 1"C) 6(2TPS, #14G, 1"C) 4–1" SP.C 2–2" SP.C
31	CABLE BY INSTRUMENTATION SUBCONTRACTOR, 3"C 2–2" SP.C. 1–2"C FOR EXISTING FIBER AND INTERCOM 1–4"SP.C
32	1(2#12, #12G, 1"C) 2(2–TPS, 1"C) 1(5#12, 4#14, #12G, 1"C) 2(6#14, #14G, 1"C) 1(4#14, #14G, 1"C)
33	CABLE BY INSTRUMENTATION SUBCONTRACTOR, 3"C 1–2" SP.C.
34	2–2" SP.C
35	2–1" SP.C
36	3#12, #12G, 1"C 1–1" SP.C
37	2#12, #12G, 1"C 1–1" SP.C
38	10#14, #14G, 1"C 1–1" SP.C
39	7(4#500kcmil, 4"C) 3–4"SP.C

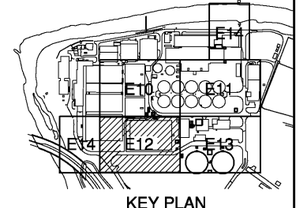
DUCTBANK CONDUIT AND WIRE

NO.	DESCRIPTION
40	5(3#500kcmil, #250kcmilG, 4"C) 2–4" SP.C. 1–2" SP.C.
41	4–5"SP.C. (WIRE BY ELECTRIC UTILITY)
42	16–4"SP.C. (SEE NOTE 3)
43	1(2#12, #12G, 1"C) 1–1" SP.C.
A	1(3#500KCMIL, #250kcmilG, 4"C)
B	1(3#350KCMIL, #3/0G, 3"C)
C	3(4#350KCMIL, 3"C)

480VAC FROM UTILITY TRANSFORMER



MCC–18, MCC–14, AND MCC–8 TEMPORARY SUPPLY SINGLE LINE DIAGRAM



KEY PLAN

1"=20'–0"

20 10 0 20'

NO.	ISSUED FOR	DATE	BY
3	ADDENDUM 1	APRIL 2004	RLT
2	CONSTRUCTION	MAR 2004	RLT
1	REGULATORY APPROVAL	NOV 2003	RLT

DESIGNED BRL
DRAWN BRL
CHECKED
PROJ. ENGR. DAN
APPROVED

THIS DOCUMENT ORIGINALLY ISSUED FOR CONSTRUCTION AND SEALED BY ROBERT S. DIFIORE, SEAL NO. 22769

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RECORD DRAWING

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CITY OF ROANOKE
VIRGINIA

REGIONAL WATER POLLUTION CONTROL PLANT
PROCESS TRAIN IMPROVEMENTS

SITE PLAN
ELECTRICAL
PARTIAL SITE PLAN

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.

DATE MARCH 2004
H & S JOB NUMBER 30788B
CONTRACT NUMBER B
DRAWING NUMBER E12

PLOT DATE 03/29/04 8:11am FILE= H:\30788\307888\ELEC\e012 by BUSK XREF=307888\misc\30786b, 001\ep-st, 001\ep-st-aerial-2002, 001\ep-st-names-B, 001\KEY PLAN B, 001\elec-site,